

MattPlast MG

Screen Inks

PRODUCT INFORMATION

MattPlast MG is a highly opaque ink with exceptionally low odour and excellent printability, designed for use on PVC and other plastics.

Plastics

Certain plastics may be impregnated with lubricants which, like plasticiser migration, may impair adhesion and block resistance even a considerable period after printing. This can be overcome by wiping the surface with White Spirit before printing. Surface adhesive left from protective papers on rigid PVC and acrylic sheets should be thoroughly removed in line with supplier's instructions.

Certain plastics can become brittle when printed, possibly to the point of shattering, often only after several weeks. It is therefore essential to check compatibility between ink and plastic to guard against this problem.

Double-sided Stickers

MattPlast MG inks may be used to produce double-sided stickers. Prior to such use please consult your Fujifilm supplier. Owing to the complex nature of this type of work printers must satisfy themselves, before starting a production run, that their substrate and production method are compatible with the ink. MG500 Obliterating Grey is recommended as the barrier coat between the first and the second side.

High Frequency Welding

MattPlast MG metallics and MG009 Dense Black are not suitable for High Frequency (HF) Welding. The other colours may be used for HF Welding. However, owing to variations in the process, it is essential that suitability of ink and substrate for welding is tested prior to use, particularly if MG001 Black is used.

Outdoor Use – MattPlast MG Line Colours

Accelerated weathering tests have been carried out on prints produced using MattPlast MG inks in a Marr Weatherometer on the BS 3900 F3 Cycle. Under these conditions, with the exception of MG164 Seritone Red (BS) and MG190 Deep Orange/Seritone Orange, inks withstood 2000 hours (comparable to approx. 24 months outdoor exposure in the UK or similar climate) of testing before significant colour deterioration was evident.

Main characteristics

Finish

Matt

Drying

Jet drying: 50°C 12-16 seconds.

Air drying: flexible PVC 4-7 minutes, rigid PVC up to 10 minutes.

Thinning

10-15% ZC521. Slow production or very fine detail in hot conditions use ZC533. High speed printing use ZV556.

Wash-up

Screen Wash Universal. ZC533 or Actisol Superjet Screen Spray.

Mesh

Nos.90-120 monofilament Fluorescents, Metallics and Varnishes.

Stencil Recommendation

Any recommended solvent resistant Dirasol emulsion, Capillex film or indirect stencil.

Coverage & Mesh

32-35m²/kg through 90 monofilament.

Applications

Self-adhesive stickers and labels (including under surface printing), self-cling, top coated polyester, acrylics, ABS, CAB.

Colour Range

Seritone Matching System and metallics. PANTONE®* 1000 Matching formulae available.

Properties

Exceptionally low odour of wet ink and finished prints. Fast jet drying to smooth finish with high opacity. Excellent screen stability and print definition.

Co-use with other Inks

MattPlast MG may be safely mixed with Matt Vinyl MV. Mixtures should be thinned with ZV542. MattPlast MG may also be mixed with Plastijet XG, Plastipure Fluorescent FP, Polyplast PY, Seritec TH. Such mixtures should be thinned with ZV551. MattPlast will print over dry ink films of Matt Vinyl MV, Seritec TH and may also be overprinted by them and Plastipure FP. Where maximum interface adhesion between colours is required, a single ink system should be used.

IMPORTANT: Stir well before every use. Always test application fully before beginning production run as there is often considerable variance in plastics from different manufacturers and even between different batches.

*PANTONE® is the property of Pantone, Inc.

Like all matt inks, MattPlast MG will tend to trap atmospheric dirt on its surface. To avoid this, over-vernish with PY433 Polyplast PY EL Overprint Varnish. See Product Information Sheet 'Polyplast PY EL Systems'.

MG164 and MG190 are not recommended for outdoor exposure greater than 12 months.

Rich Pale Gold is not recommended for outdoor use as Metallic shades are known to tarnish.

The Seritone Matching System

The Seritone Matching System enables printers to readily match a variety of colours. The Seritone base colours have been specially selected for their cleanliness of tone and suitability for intermixing.

Where a black or white printing colour is required, MG021 White, MG023 Extra Opaque White, MG001 Black or MG009 Dense Black should be used, as these have higher opacity and colour strength than the tinting shades.

Standard Colours

MG001	Black	(#)
MG009	Dense Black	
MG021	White	
MG023	Extra Opaque White	
MG041 (S)	Light Yellow/Seritone Yellow (GS)	
MG080 (S)	Mid Chrome/Seritone Yellow (RS)	(#)
MG190 (S)	Deep Orange/Seritone Orange	
MG191 (S)	Vermilion/Seritone Red (YS)	
MG164 (S)	Seritone Red (BS)	
MG165 (S)	Seritone Magenta	(#)
MG127 (S)	Deep Violet/Seritone Violet	(#)
MG230 (S)	Seritone Blue	(#)
MG233 (S)	Seritone Blue (RS)	(#)
MG325 (S)	Seritone Green	(#)
MG500	Obliterating Grey	
MG381	Extender Base	

Available in 1kg and 5kg units.

MG030 Tinting White

Available in 5kg units.

(BS)	Blue Shade	(GS)	Green Shade
(RS)	Red Shade	(YS)	Yellow Shade
(S)	Seritone Shades		

Metallics

MG461	Rich Pale Gold	(#)
MG462	Silver	

Available in 1kg and 5kg units.

Solvents

ZC521 Thinner

Available in 5ltr, 15ltr and 200ltr units.

ZV556 Fast Thinner
ZC533 Retarder

Available in 5ltr units.

Fluorescents

Plastipure Fluorescent FP screen inks are recommended when a fluorescent ink is required for

use in conjunction with MattPlast MG. See Product Information Sheet 'Plastipure Fluorescent FP'.

Universal Tinters

A range of non-fluorescent and fluorescent highly concentrated colour bases for tinting. The fluorescent colours are not recommended for use with MattPlast MG, but up to 10% of the non-fluorescent tinters may be added. See Product Information Sheet 'Universal Tinters'.

Storage

For optimum shelf life, all products should be stored at moderate temperatures, between 5°C and 30°C. Storage outside of these temperatures may lead to deterioration in the performance of the product.

When stored at optimum storage conditions MattPlast MG inks are expected to have a shelf life of at least 18 months from date of manufacture.

Fujifilm Speciality Ink Systems Limited:

- Has certification to the International Environmental Standard, ISO 14001.
- Has certification to the Quality Management Standard, ISO 9001.
- Has certification to the Occupational Health and Safety Standard, OHSAS 18001.
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- Research and development team, work to an in house Health Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

MattPlast MG Inks:

- Unless otherwise indicated, colours in the range are routinely tested and supplied EN71-3 2013 approved.
- Products marked (#) are formulated to comply with EN71-3 2013, but are not routinely tested for compliance with the standard.

Comprehensive information on the safety and handling of MattPlast MG inks, solvents and associated products is given in the appropriate Safety Data Sheets.

Environmental Information

MattPlast MG Inks:

- Do not contain ozone-depleting chemicals as described in the Montreal Convention.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of Fujifilm Speciality Ink Systems Limited and its associated companies, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

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